TOTE90 "2993660

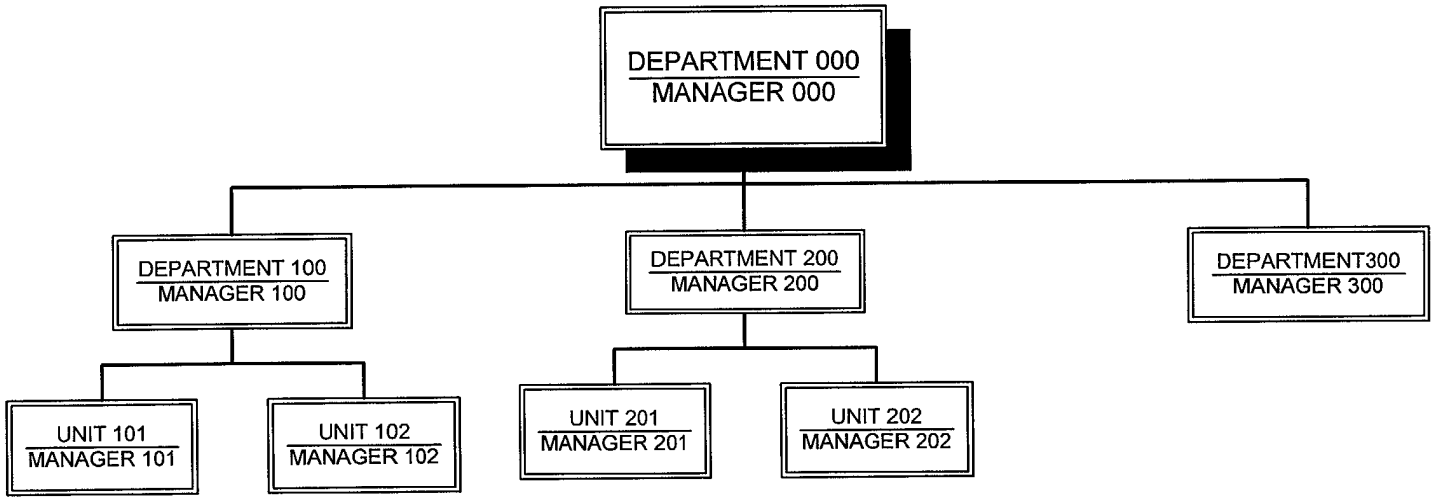
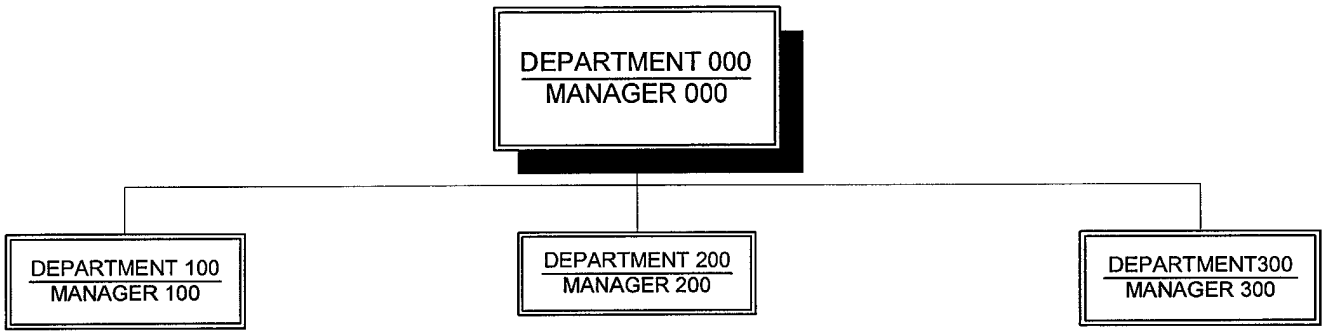


FIG. 1A



APPROVAL HIERARCHY

FIG. 1B

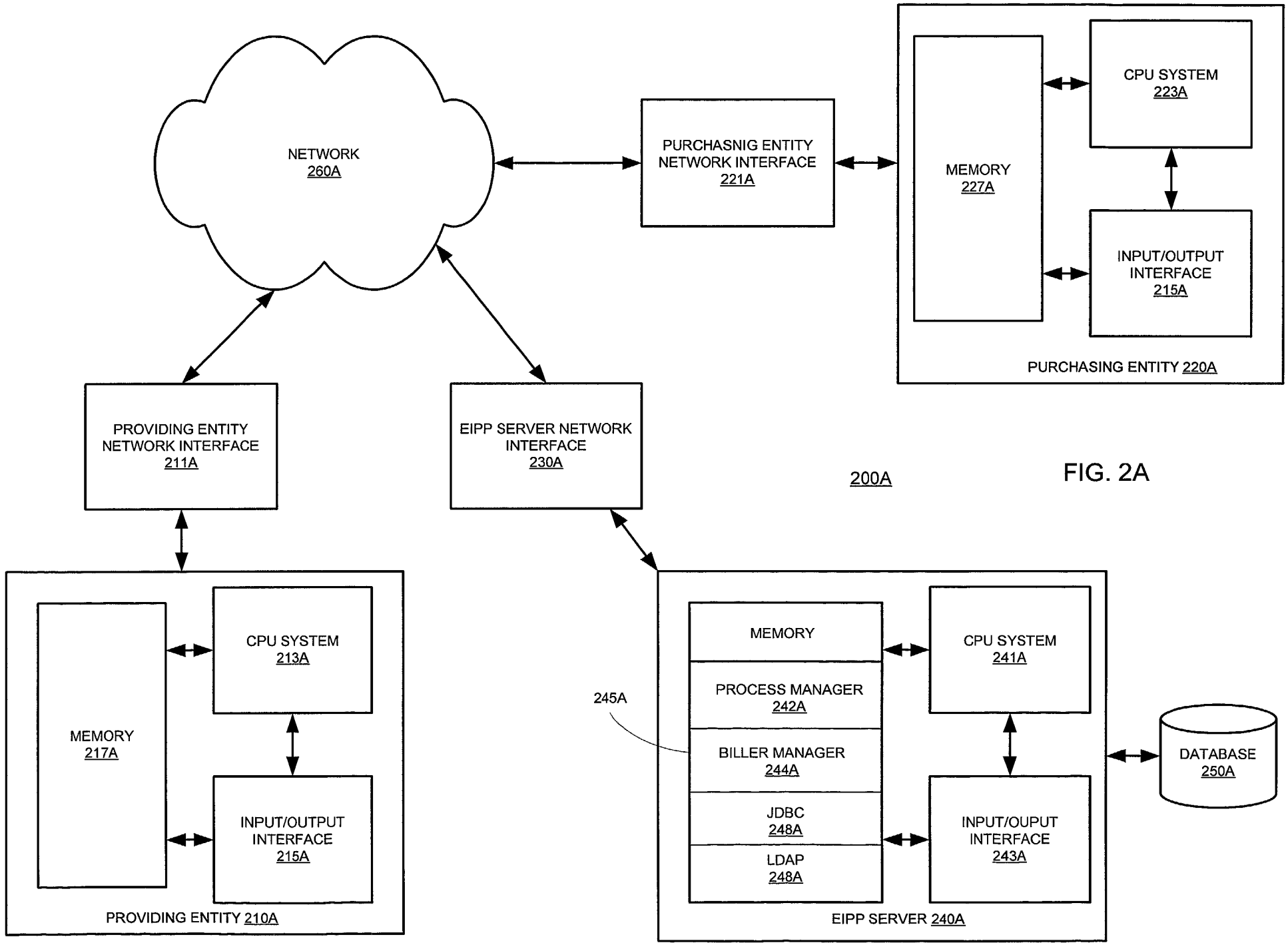

NETWORK
260A
PURCHASNIG ENTITY
NETWORK INTERFACE
221A
MEMORY
227A
CPU SYSTEM
223A
INPUT/OUTPUT
INTERFACE
215A
PURCHASING ENTITY 220A
PROVIDING ENTITY
NETWORK INTERFACE
211A
EIPP SERVER NETWORK
INTERFACE
230A
200A
MEMORY
217A
CPU SYSTEM
213A
INPUT/OUTPUT
INTERFACE
215A
PROVIDING ENTITY 210A
245A
MEMORY
PROCESS MANAGER
242A
BILLER MANAGER
244A
JDBC
248A
LDAP
248A
CPU SYSTEM
241A
INPUT/OUPUT
INTERFACE
243A
DATABASE
250A
EIPP SERVER 240A

FIG. 2A

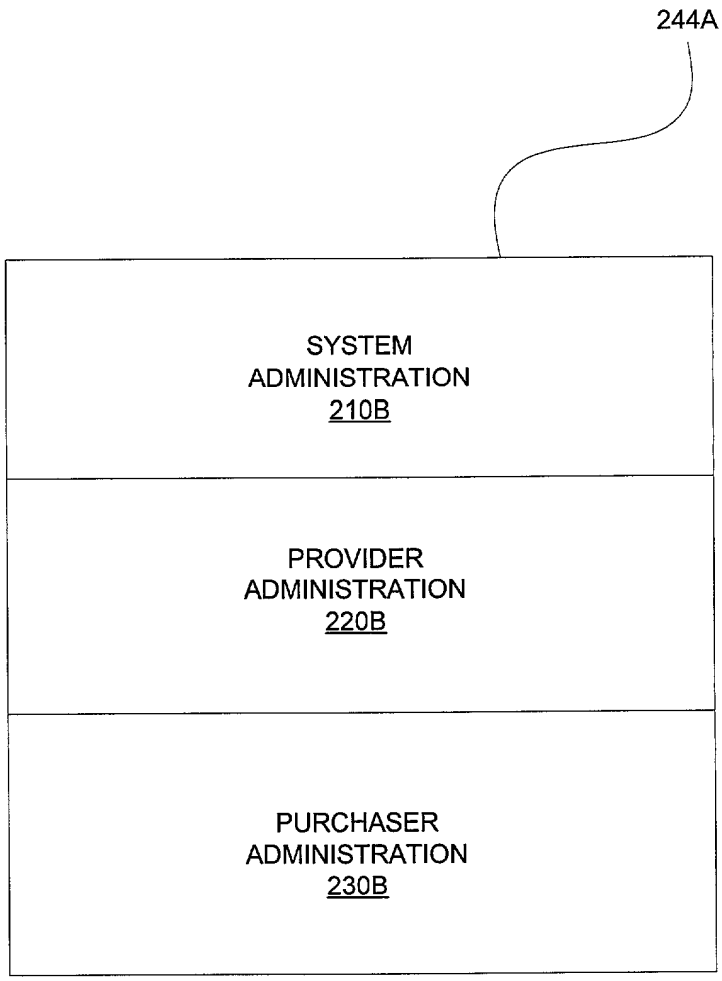

244A
SYSTEM
ADMINISTRATION
210B
PROVIDER
ADMINISTRATION
220B
PURCHASER
ADMINISTRATION
230B

FIG. 2B

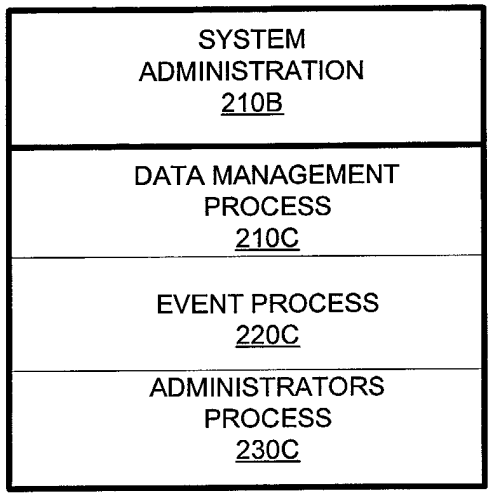


FIG. 2C

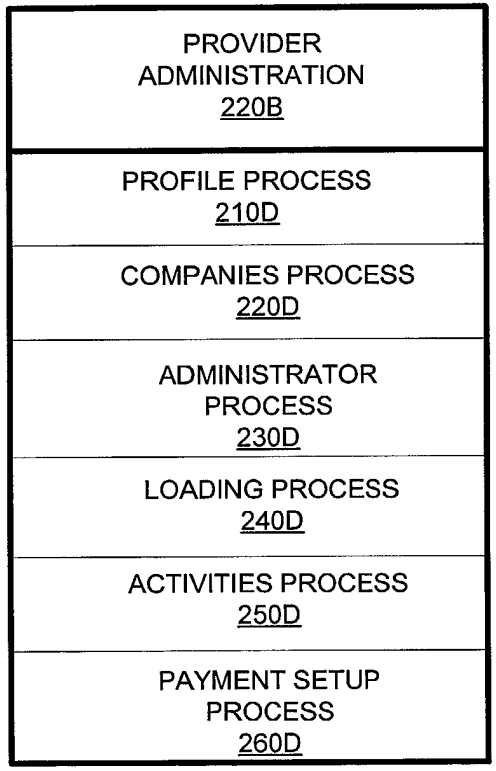


FIG. 2D

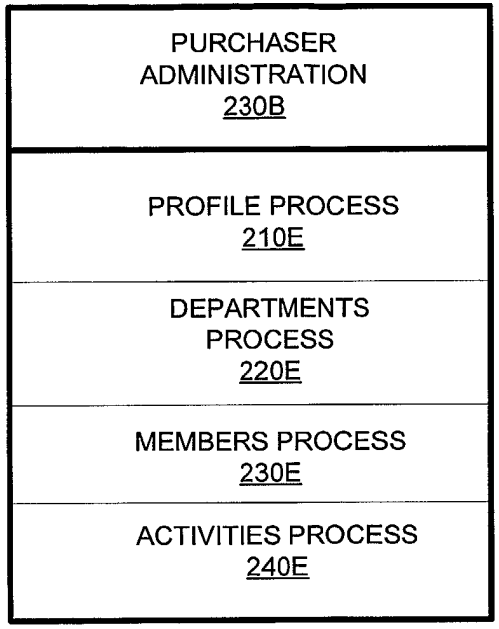


FIG. 2E

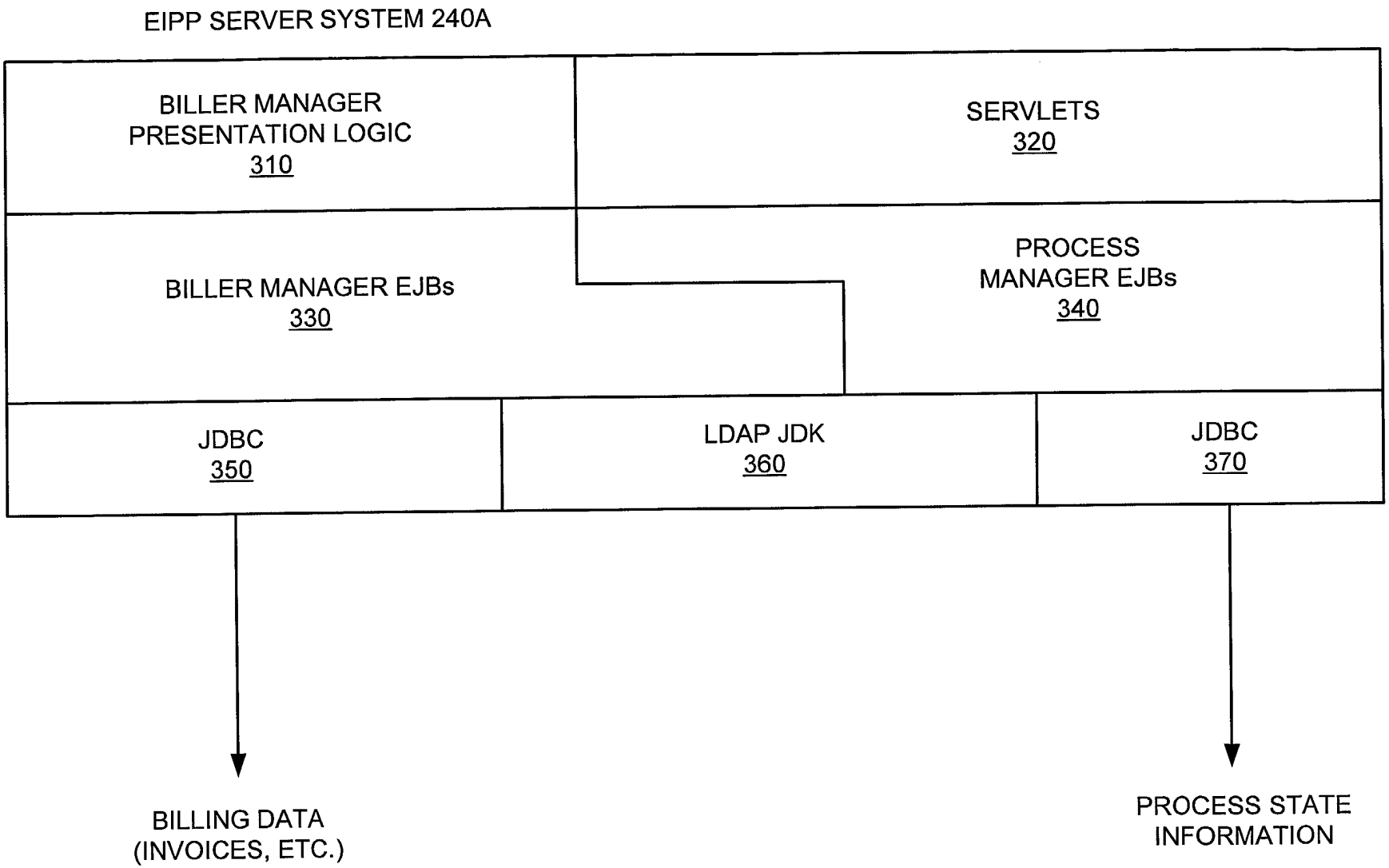

EIPP SERVER SYSTEM 240A
BILLER MANAGER PRESENTATION LOGIC 310
SERVLETS 320
BILLER MANAGER EJBs 330
PROCESS MANAGER EJBs 340
JDBC 350
LDAP JDK 360
JDBC 370
BILLING DATA (INVOICES, ETC.)
PROCESS STATE INFORMATION

FIG. 3

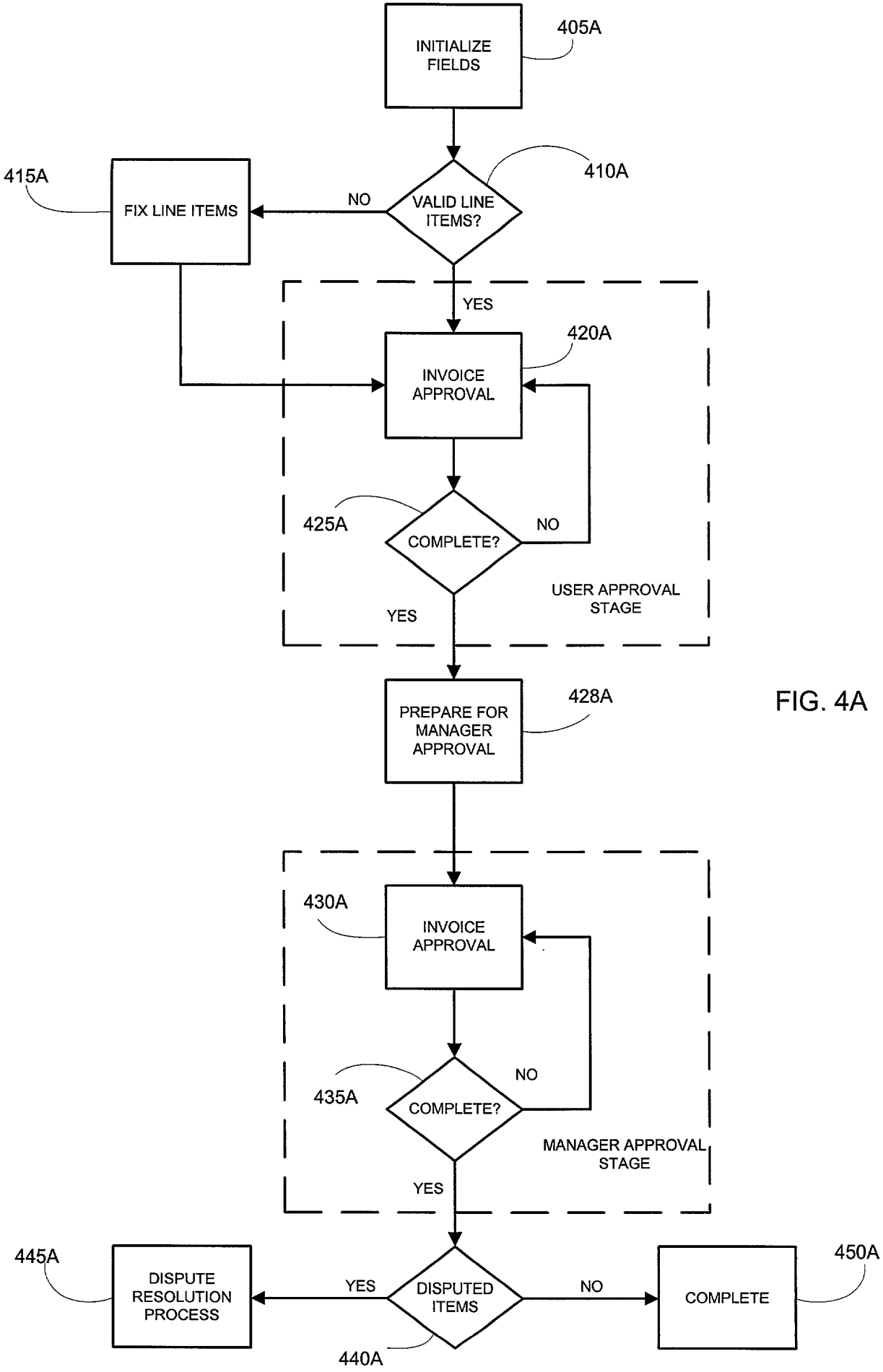

INITIALIZE FIELDS
405A
VALID LINE ITEMS?
410A
NO
FIX LINE ITEMS
415A
YES
INVOICE APPROVAL
420A
COMPLETE?
425A
NO
YES
USER APPROVAL STAGE
PREPARE FOR MANAGER APPROVAL
428A
INVOICE APPROVAL
430A
COMPLETE?
435A
NO
YES
MANAGER APPROVAL STAGE
DISPUTED ITEMS
440A
YES
DISPUTE RESOLUTION PROCESS
445A
NO
COMPLETE
450A

FIG. 4A

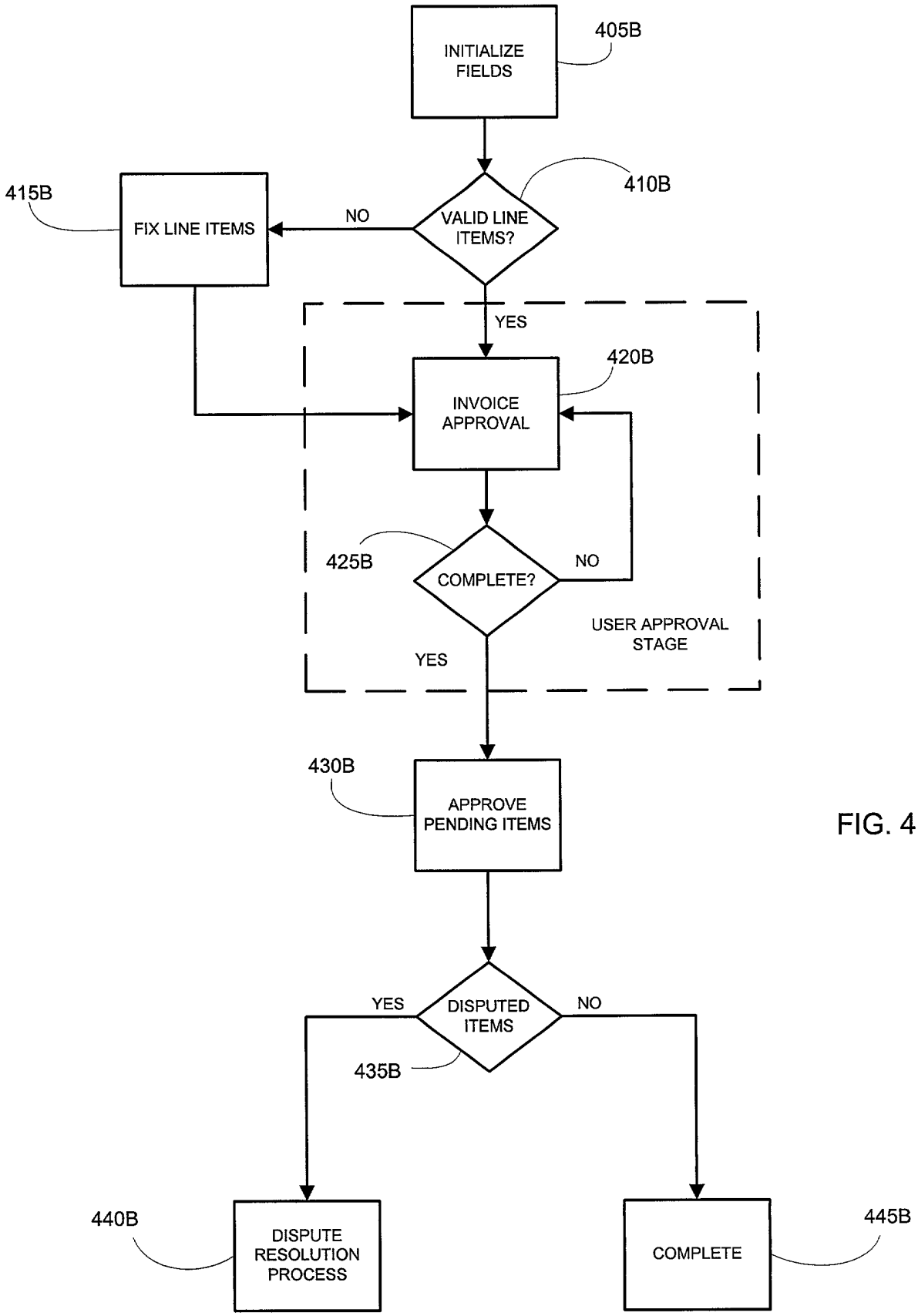

INITIALIZE FIELDS
405B
VALID LINE ITEMS?
410B
NO
FIX LINE ITEMS
415B
YES
INVOICE APPROVAL
420B
COMPLETE?
425B
NO
YES
USER APPROVAL STAGE
APPROVE PENDING ITEMS
430B
DISPUTED ITEMS
435B
YES
NO
DISPUTE RESOLUTION PROCESS
440B
COMPLETE
445B

FIG. 4B

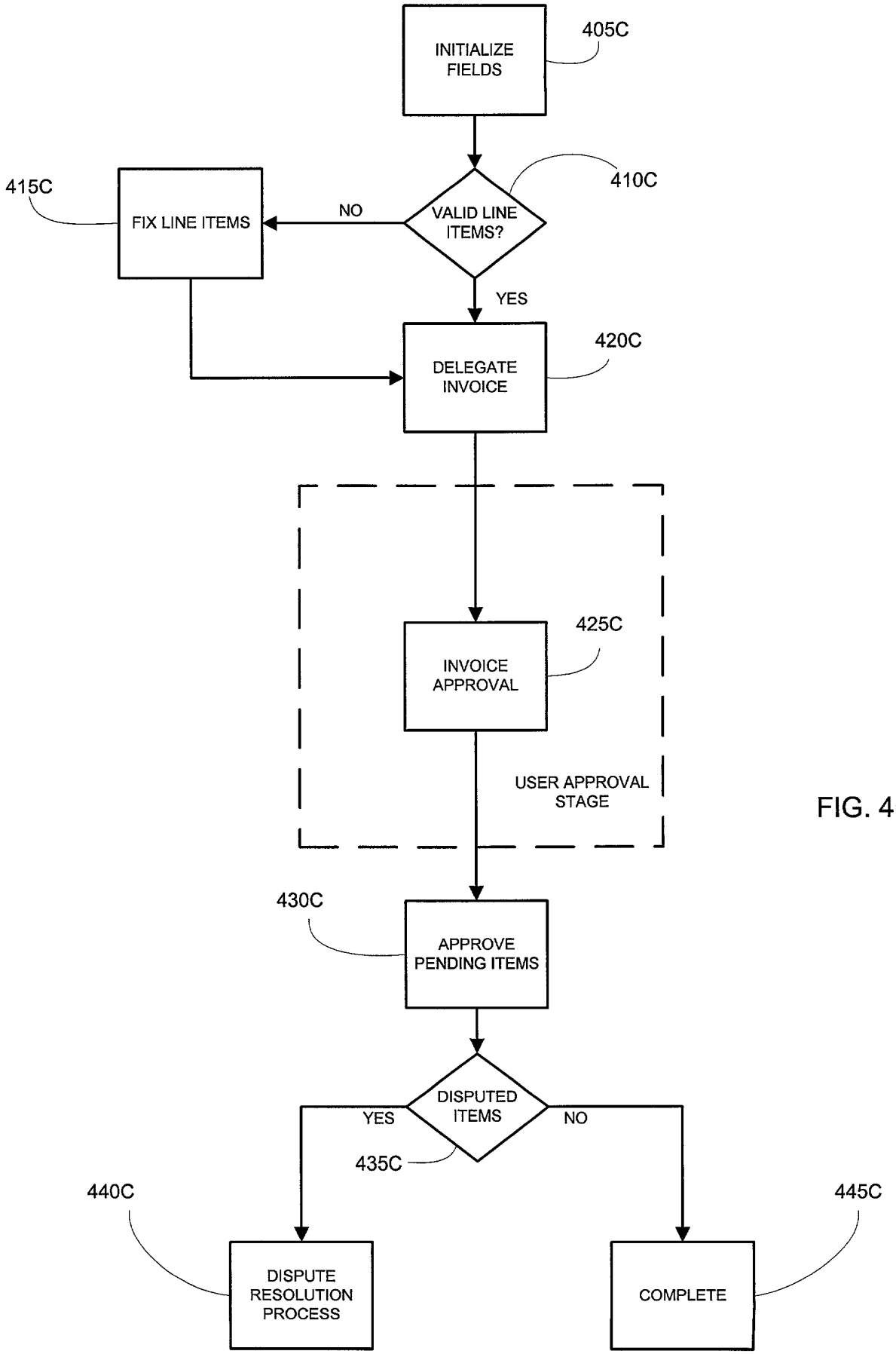

INITIALIZE FIELDS
405C
VALID LINE ITEMS?
410C
NO
FIX LINE ITEMS
415C
YES
DELEGATE INVOICE
420C
INVOICE APPROVAL
425C
USER APPROVAL STAGE
APPROVE PENDING ITEMS
430C
DISPUTED ITEMS
435C
YES
NO
DISPUTE RESOLUTION PROCESS
440C
COMPLETE
445C

FIG. 4C

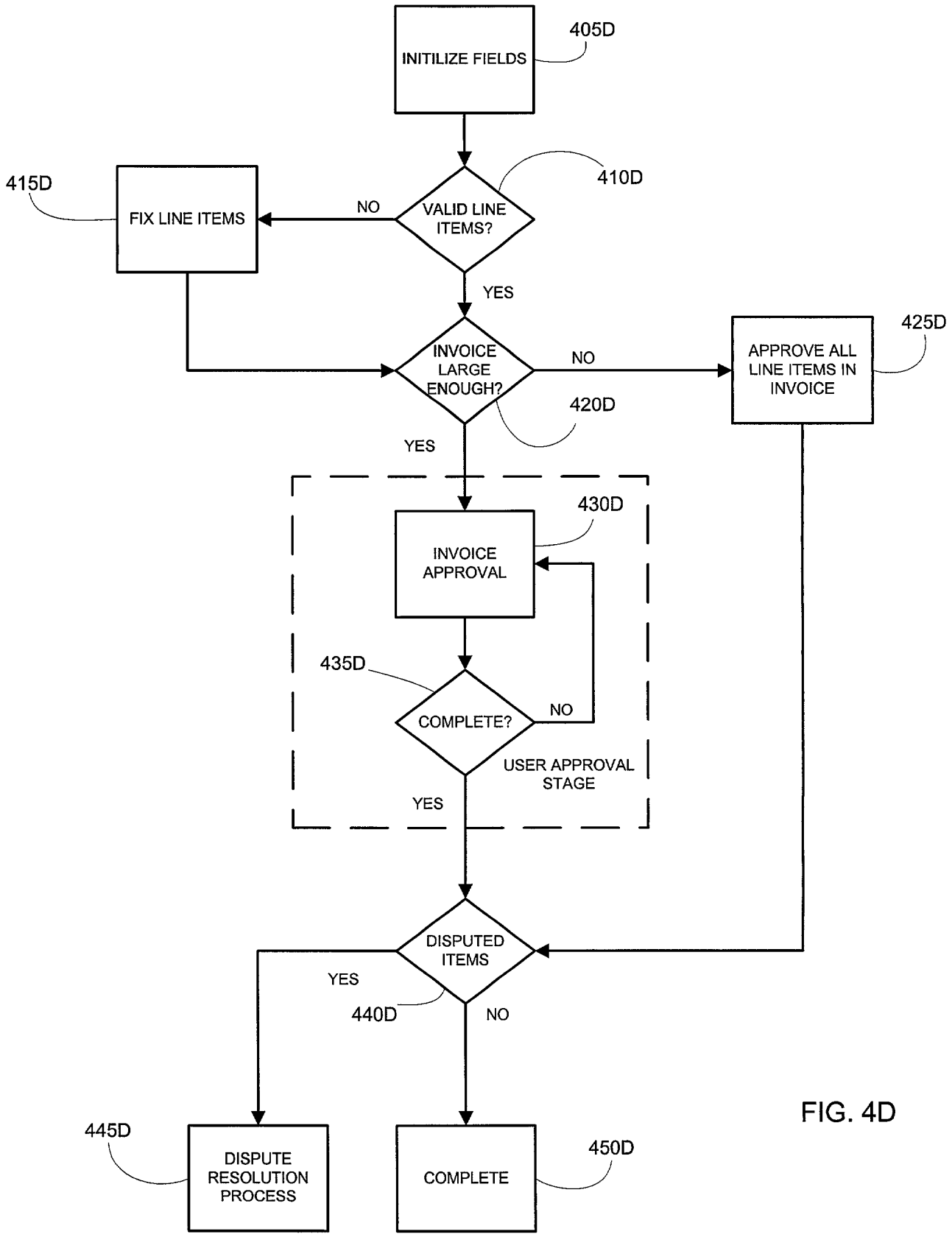

INITILIZE FIELDS
405D
VALID LINE ITEMS?
410D
NO
FIX LINE ITEMS
415D
YES
INVOICE LARGE ENOUGH?
NO
APPROVE ALL LINE ITEMS IN INVOICE
425D
420D
YES
INVOICE APPROVAL
430D
COMPLETE?
435D
NO
USER APPROVAL STAGE
YES
DISPUTED ITEMS
YES
440D
NO
DISPUTE RESOLUTION PROCESS
445D
COMPLETE
450D

FIG. 4D

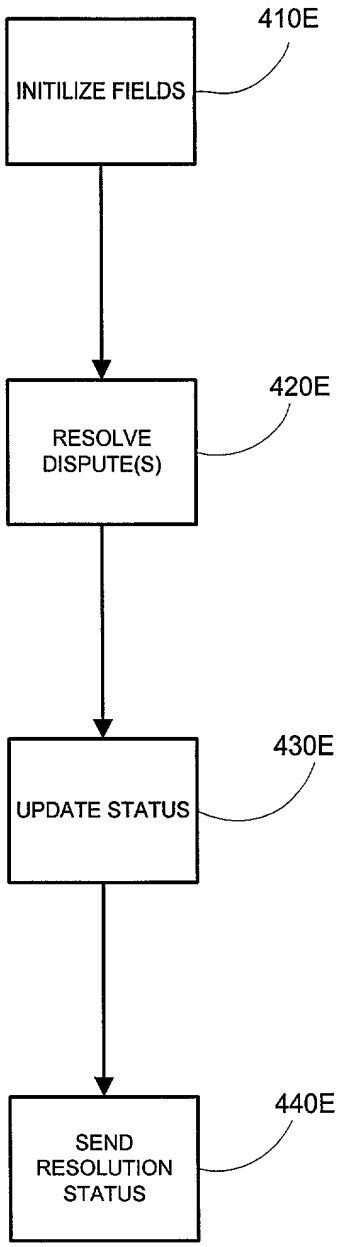

410E
INITILIZE FIELDS
420E
RESOLVE DISPUTE(S)
430E
UPDATE STATUS
440E
SEND RESOLUTION STATUS

FIG. 4E

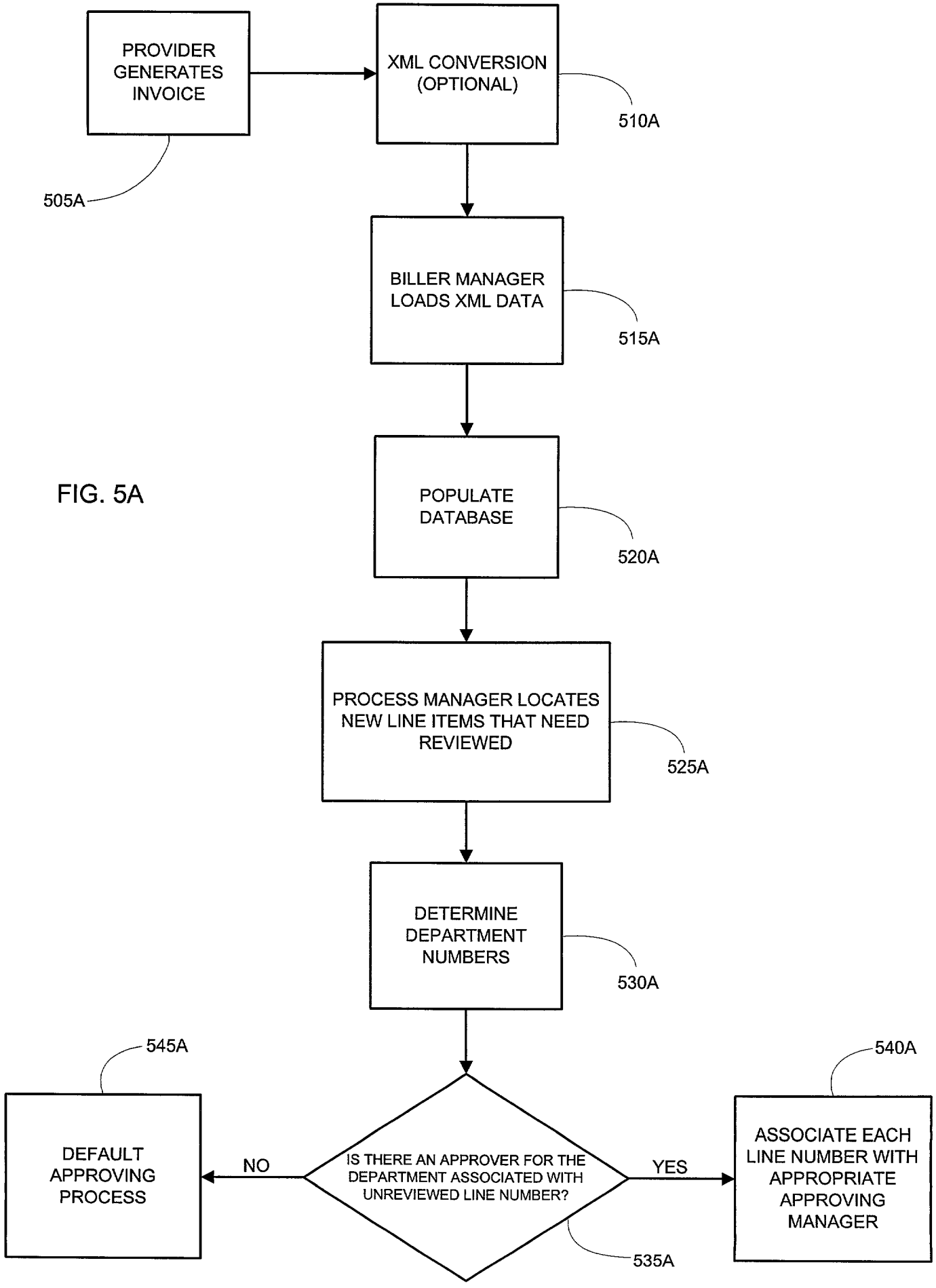

PROVIDER GENERATES INVOICE
505A
XML CONVERSION (OPTIONAL)
510A
BILLER MANAGER LOADS XML DATA
515A
POPULATE DATABASE
520A
PROCESS MANAGER LOCATES NEW LINE ITEMS THAT NEED REVIEWED
525A
DETERMINE DEPARTMENT NUMBERS
530A
IS THERE AN APPROVER FOR THE DEPARTMENT ASSOCIATED WITH UNREVIEWED LINE NUMBER?
535A
NO
YES
DEFAULT APPROVING PROCESS
545A
ASSOCIATE EACH LINE NUMBER WITH APPROPRIATE APPROVING MANAGER
540A

FIG. 5A

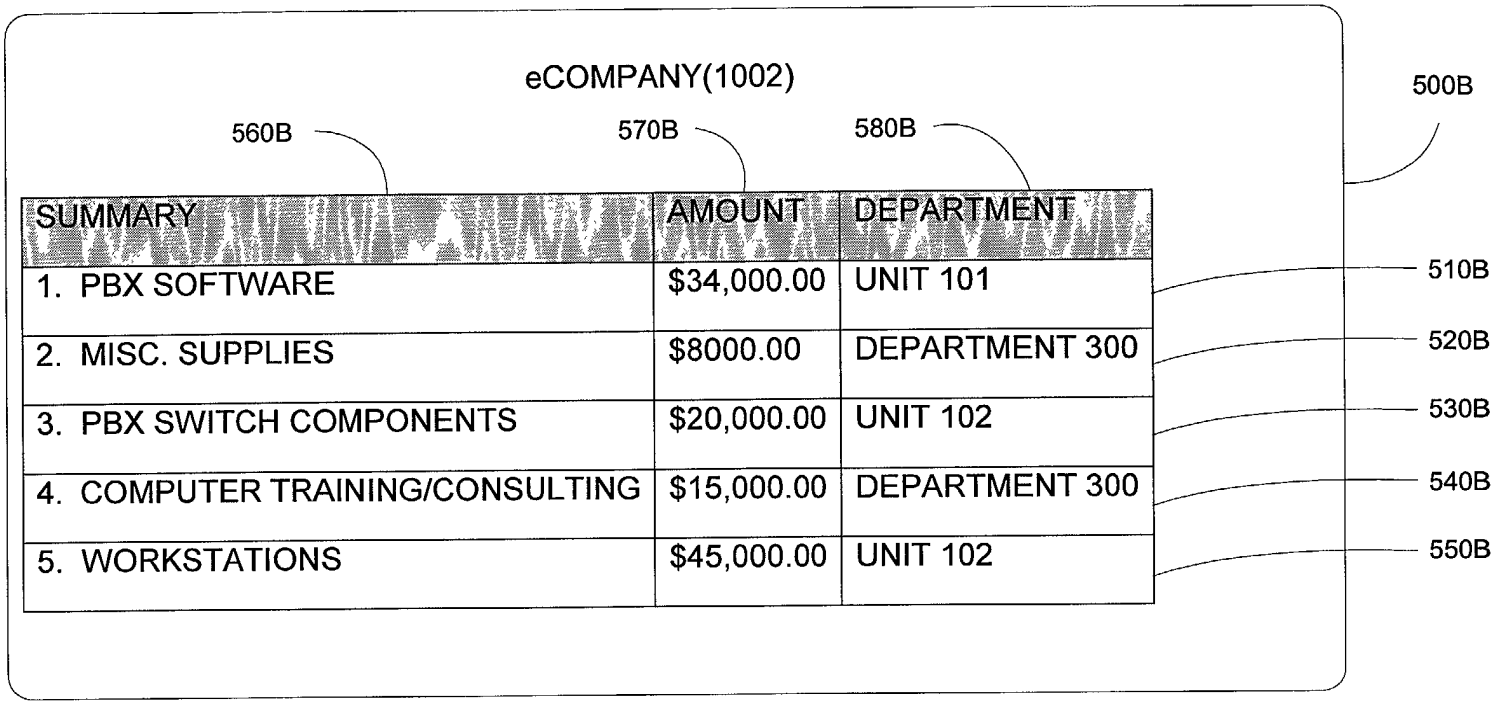
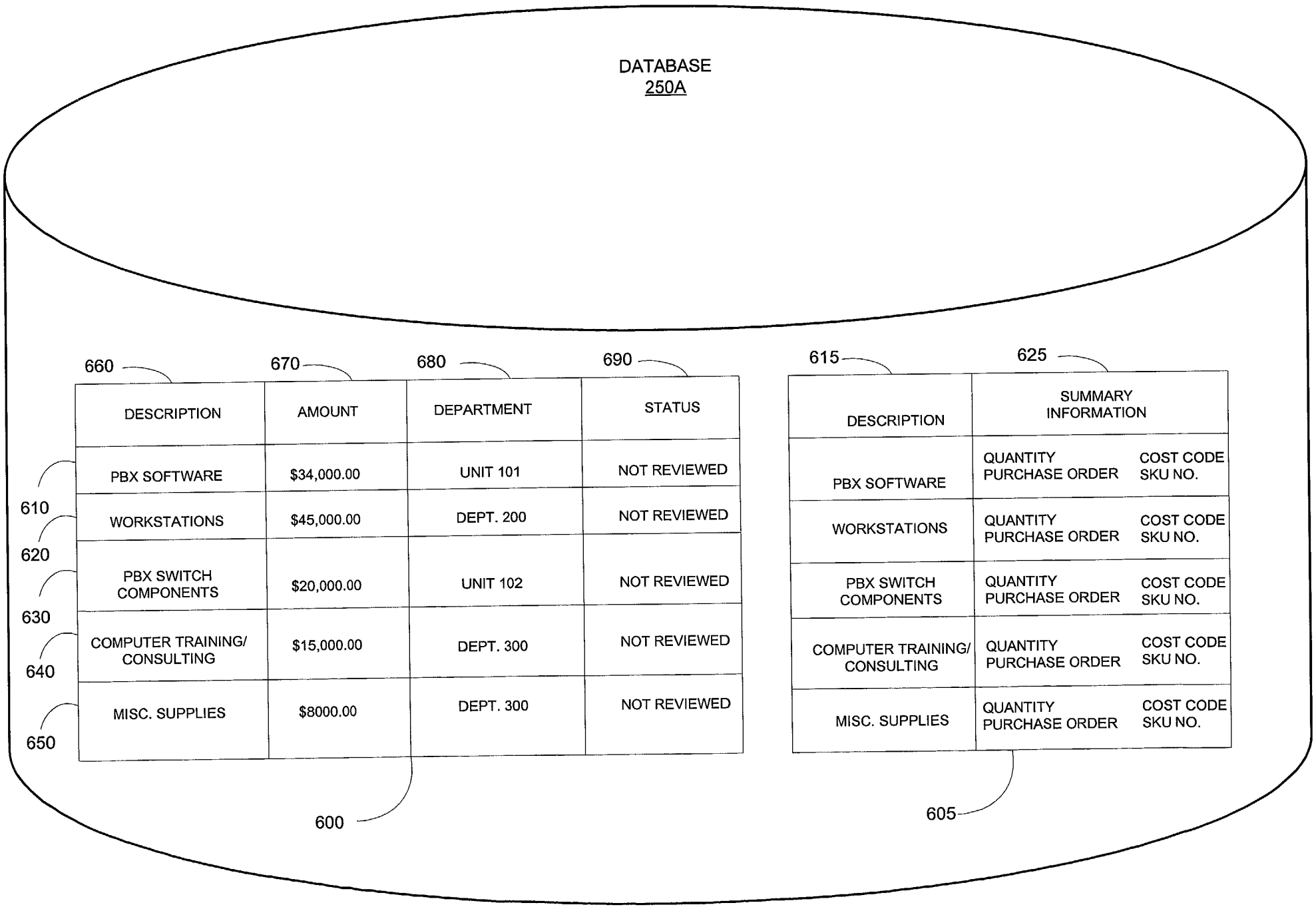

eCOMPANY(1002)
500B
560B
570B
580B
SUMMARY
AMOUNT
DEPARTMENT
1. PBX SOFTWARE
$34,000.00
UNIT 101
2. MISC. SUPPLIES
$8000.00
DEPARTMENT 300
3. PBX SWITCH COMPONENTS
$20,000.00
UNIT 102
4. COMPUTER TRAINING/CONSULTING
$15,000.00
DEPARTMENT 300
5. WORKSTATIONS
$45,000.00
UNIT 102
510B
520B
530B
540B
550B

FIG. 5B

Telesoft 2592860

FIG. 6



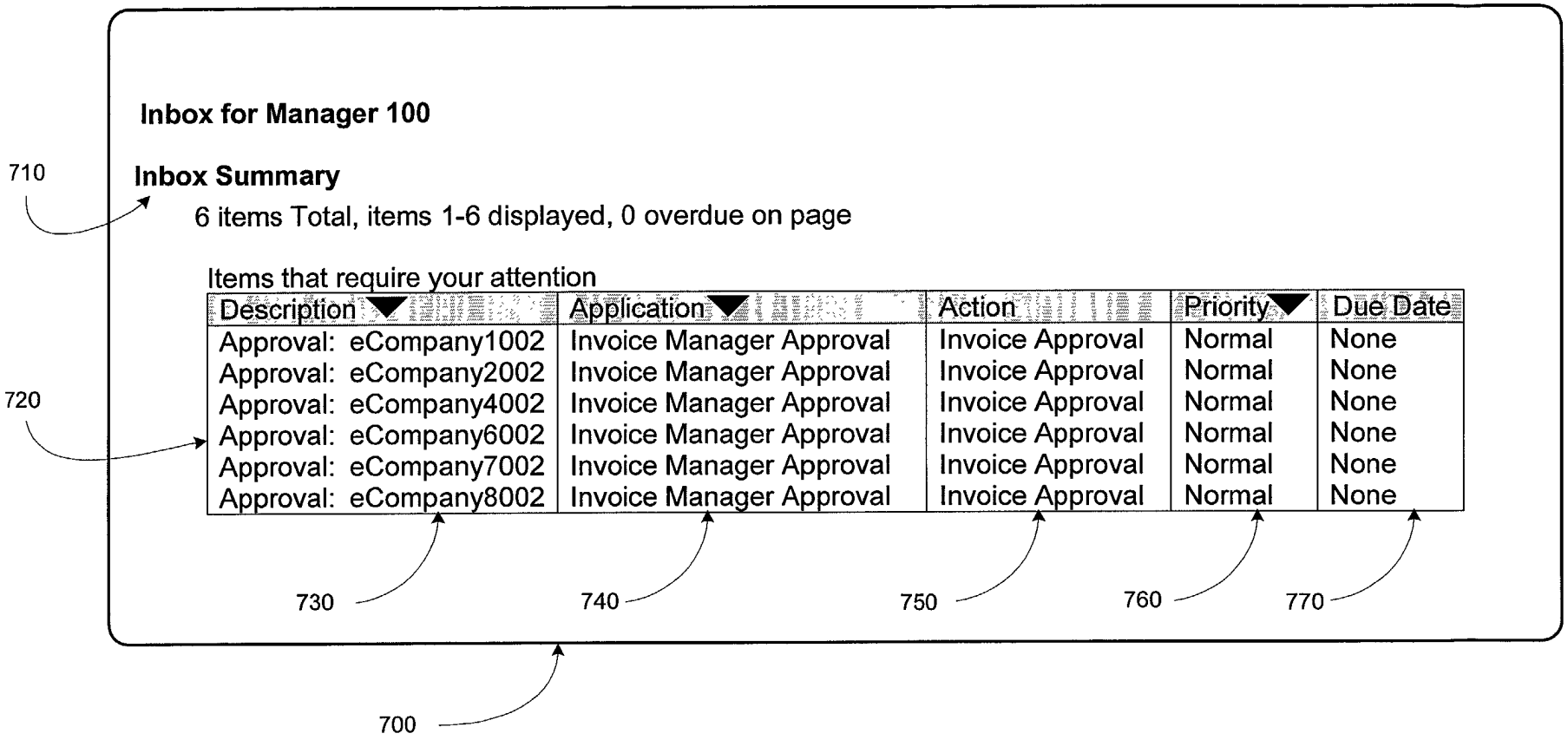

Inbox for Manager 100
710
Inbox Summary
6 items Total, items 1-6 displayed, 0 overdue on page
Items that require your attention
720
Description
Application
Action
Priority
Due Date
Approval: eCompany1002
Approval: eCompany2002
Approval: eCompany4002
Approval: eCompany6002
Approval: eCompany7002
Approval: eCompany8002
Invoice Manager Approval
Invoice Approval
Normal
None
730
740
750
760
770
700

FIG. 7

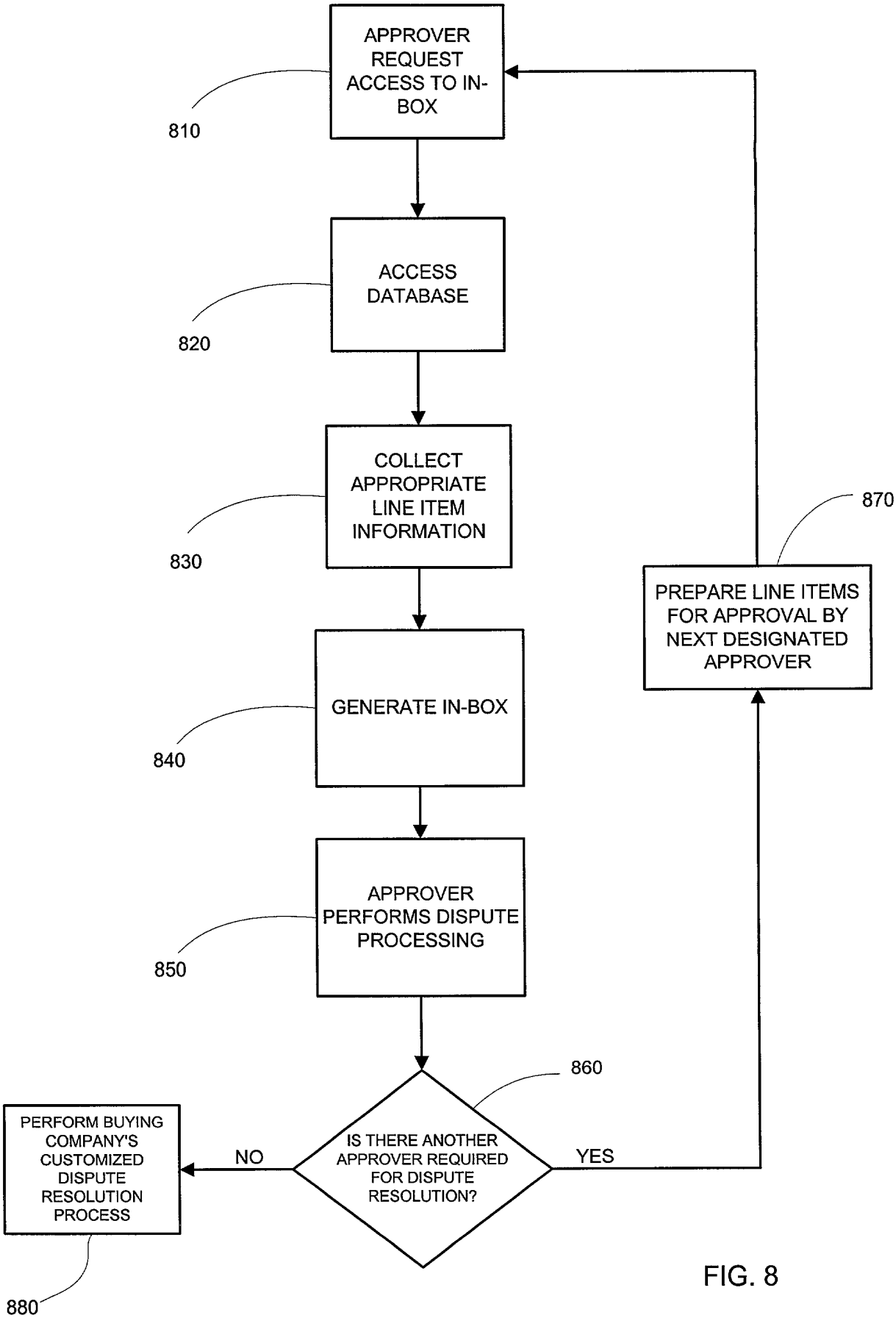

APPROVER REQUEST ACCESS TO IN-BOX
810
ACCESS DATABASE
820
COLLECT APPROPRIATE LINE ITEM INFORMATION
830
GENERATE IN-BOX
840
APPROVER PERFORMS DISPUTE PROCESSING
850
860
IS THERE ANOTHER APPROVER REQUIRED FOR DISPUTE RESOLUTION?
NO
YES
PERFORM BUYING COMPANY'S CUSTOMIZED DISPUTE RESOLUTION PROCESS
880
PREPARE LINE ITEMS FOR APPROVAL BY NEXT DESIGNATED APPROVER
870

FIG. 8

Invoice_Manager_Approval Workflow (Approval: eCompany1002) 900

Invoice # eCompany1002 (1002)

Line Items for your Department (2/2)

Approve All | Dispute All | Reset

910

SKU#	Quantity	Total Amount	Department	Purchase Order #	Cost Code	Approval Status	Action
654-2	20.0	$20,000.00	100	7564321	INF-1	Disputed	○ Approve ● Dispute

Description: PBX Switch Components

MOD: Manager 100@eCompany.com

Reason: Not Mine ▼ (920)

Notes This is not for my project (930)

SKU#	Quantity	Total Amount	Department	Purchase Order #	Cost Code	Approval Status	Action
436-1	10.0	$34,000.00	100	7564321	INF-3	Approved	● Approve ○ Dispute

Description: PBX Software

MOD: Manager 100@eCompany.com

Reason: N/A ▼

Notes

FIG. 9

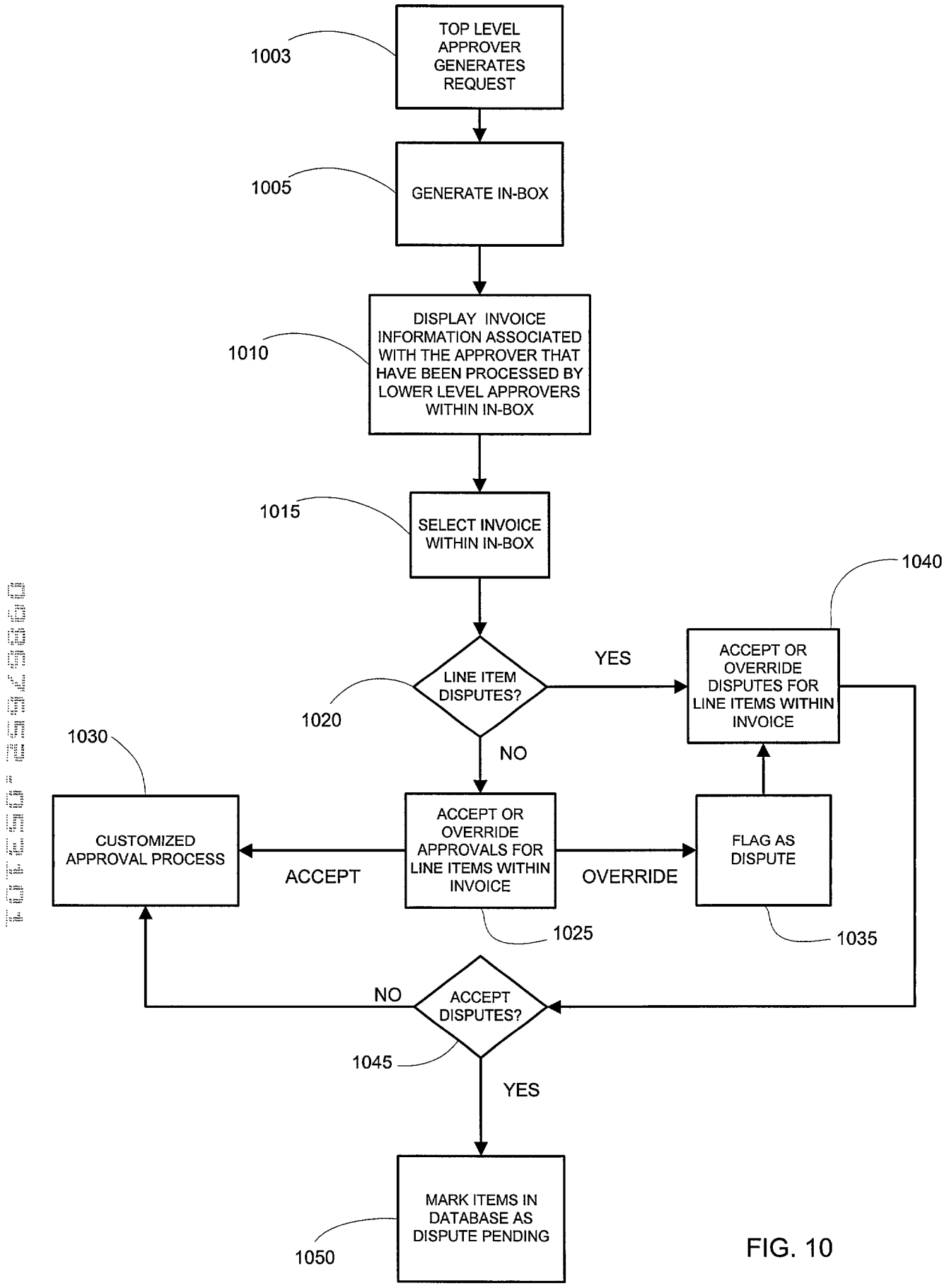

1003
TOP LEVEL APPROVER GENERATES REQUEST
1005
GENERATE IN-BOX
1010
DISPLAY INVOICE INFORMATION ASSOCIATED WITH THE APPROVER THAT HAVE BEEN PROCESSED BY LOWER LEVEL APPROVERS WITHIN IN-BOX
1015
SELECT INVOICE WITHIN IN-BOX
1020
LINE ITEM DISPUTES?
YES
1040
ACCEPT OR OVERRIDE DISPUTES FOR LINE ITEMS WITHIN INVOICE
NO
1030
CUSTOMIZED APPROVAL PROCESS
ACCEPT
ACCEPT OR OVERRIDE APPROVALS FOR LINE ITEMS WITHIN INVOICE
1025
OVERRIDE
FLAG AS DISPUTE
1035
NO
ACCEPT DISPUTES?
1045
YES
MARK ITEMS IN DATABASE AS DISPUTE PENDING
1050

FIG. 10

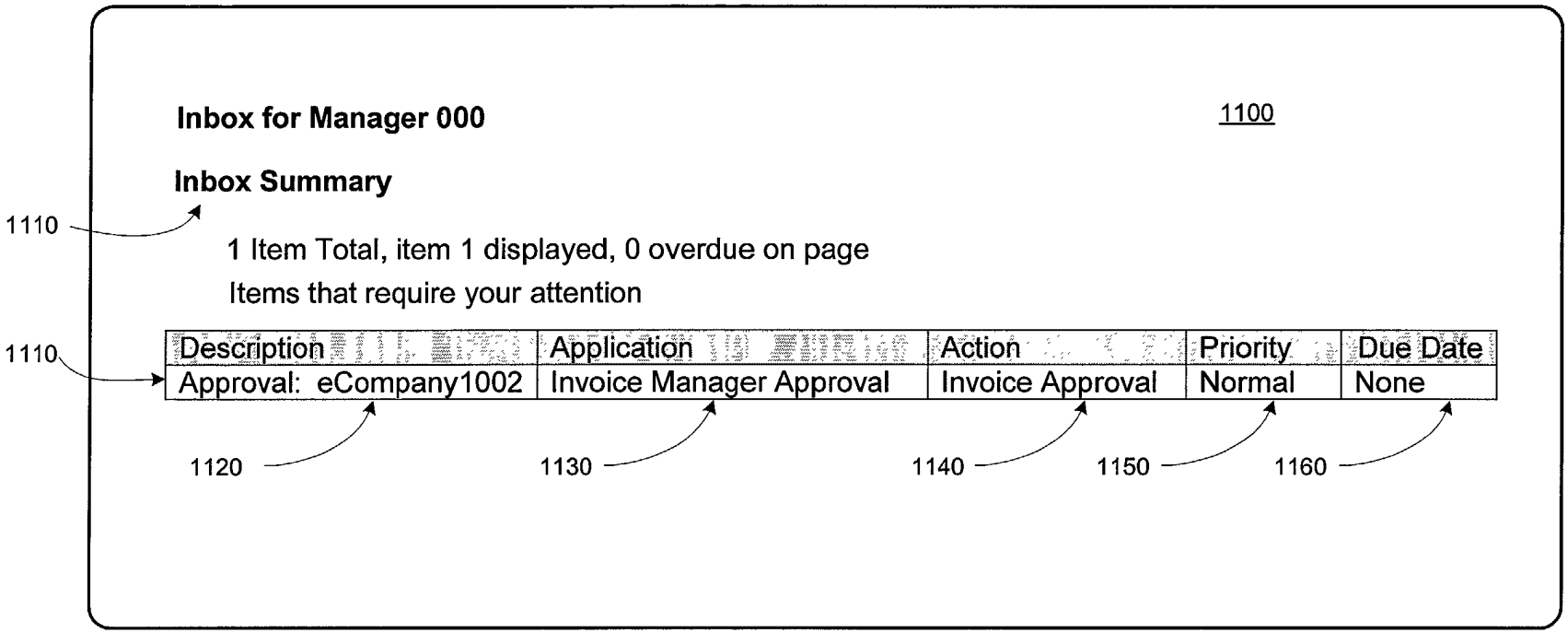

Inbox for Manager 000
1100
Inbox Summary
1110
1 Item Total, item 1 displayed, 0 overdue on page
Items that require your attention
1110
Description
Application
Action
Priority
Due Date
Approval: eCompany1002
Invoice Manager Approval
Invoice Approval
Normal
None
1120
1130
1140
1150
1160

FIG. 11

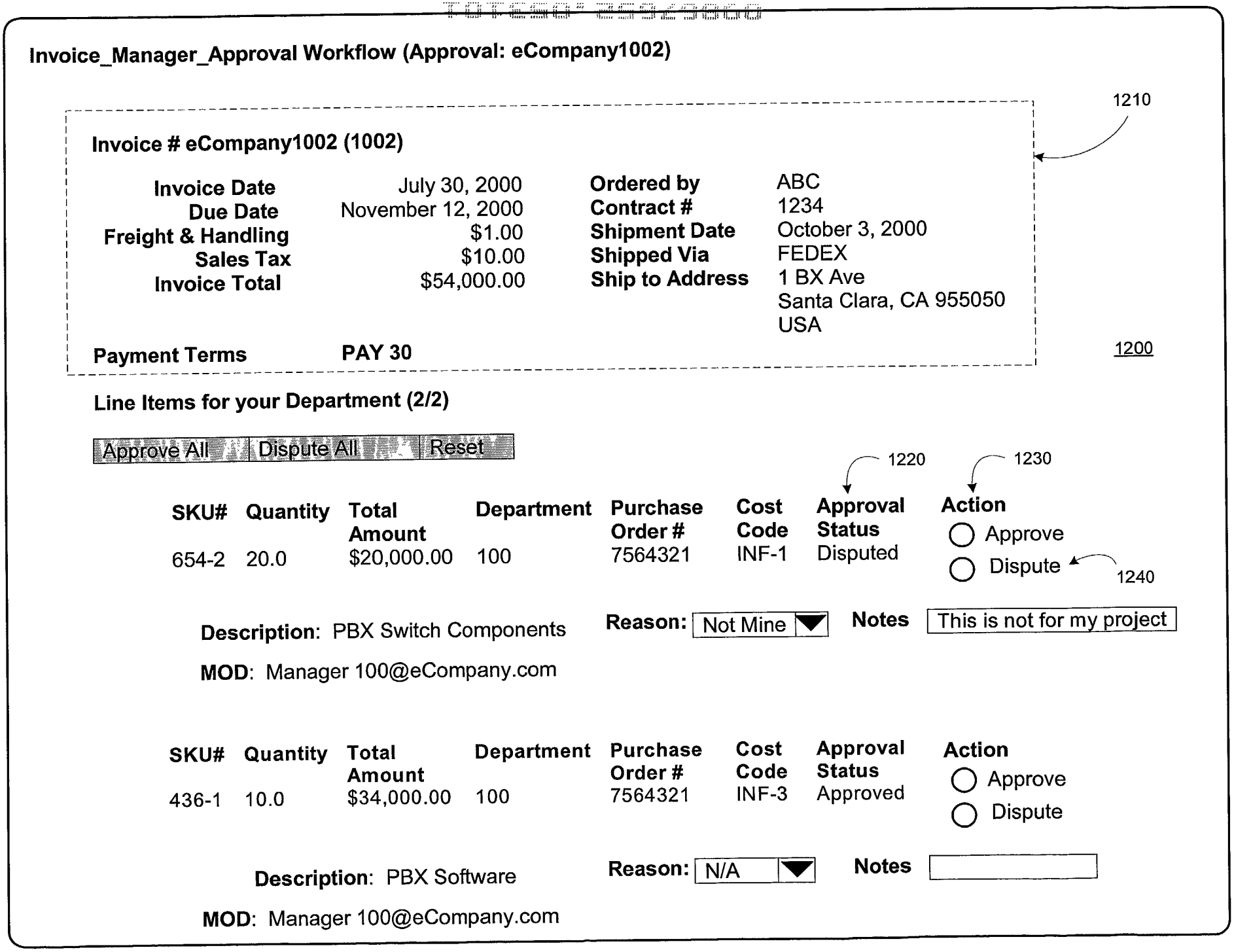

Invoice_Manager_Approval Workflow (Approval: eCompany1002)
1210
Invoice # eCompany1002 (1002)
Invoice Date July 30, 2000
Due Date November 12, 2000
Freight & Handling $1.00
Sales Tax $10.00
Invoice Total $54,000.00
Ordered by ABC
Contract # 1234
Shipment Date October 3, 2000
Shipped Via FEDEX
Ship to Address 1 BX Ave
Santa Clara, CA 955050
USA
Payment Terms PAY 30
1200
Line Items for your Department (2/2)
Approve All
Dispute All
Reset
1220
1230
SKU# Quantity Total Amount Department Purchase Order # Cost Code Approval Status Action
654-2 20.0 $20,000.00 100 7564321 INF-1 Disputed
Approve
Dispute
1240
Description: PBX Switch Components
Reason: Not Mine
Notes This is not for my project
MOD: Manager 100@eCompany.com
SKU# Quantity Total Amount Department Purchase Order # Cost Code Approval Status Action
436-1 10.0 $34,000.00 100 7564321 INF-3 Approved
Approve
Dispute
Description: PBX Software
Reason: N/A
Notes
MOD: Manager 100@eCompany.com

FIG. 12

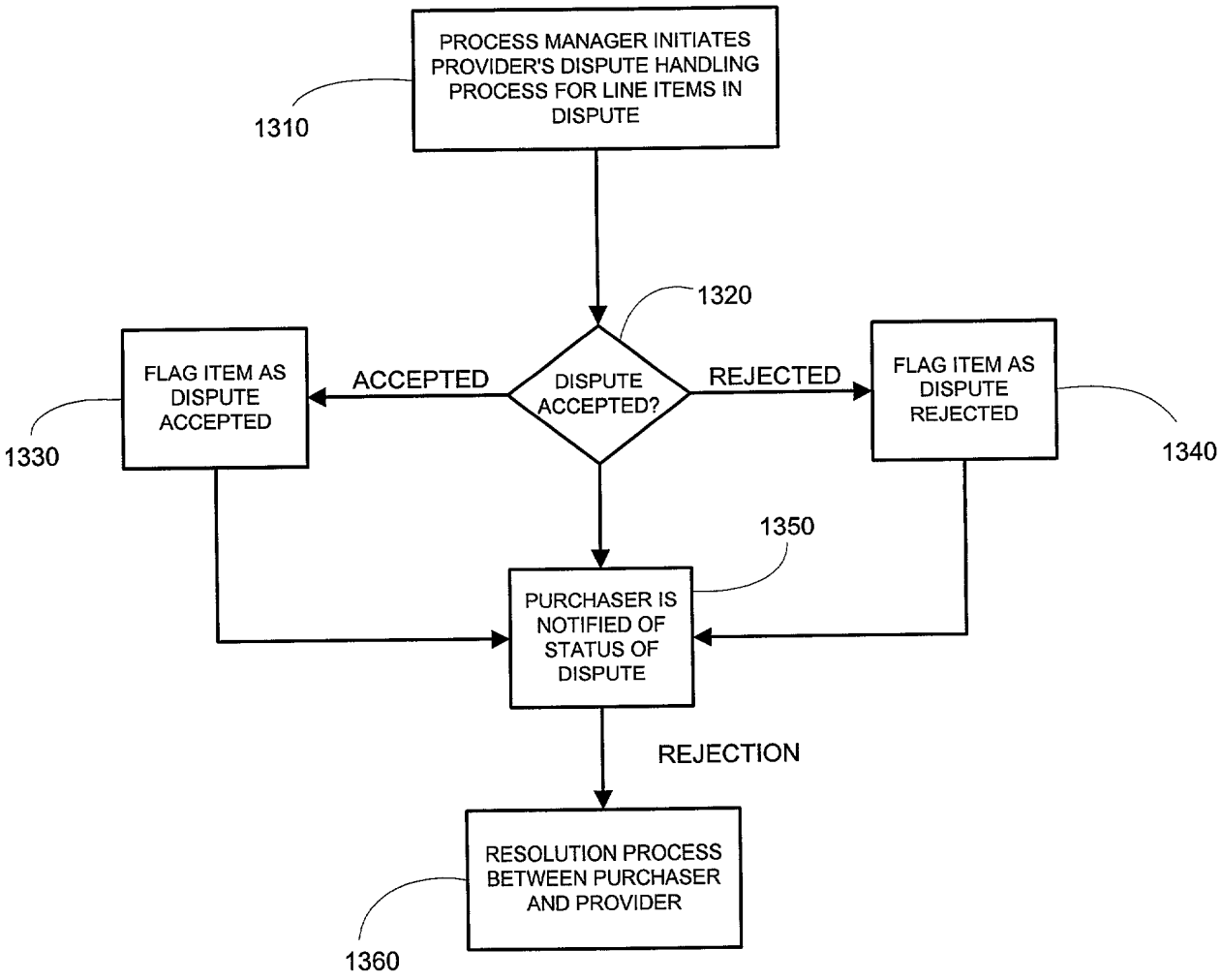

PROCESS MANAGER INITIATES PROVIDER'S DISPUTE HANDLING PROCESS FOR LINE ITEMS IN DISPUTE
1310
1320
DISPUTE ACCEPTED?
ACCEPTED
REJECTED
FLAG ITEM AS DISPUTE ACCEPTED
1330
FLAG ITEM AS DISPUTE REJECTED
1340
1350
PURCHASER IS NOTIFIED OF STATUS OF DISPUTE
REJECTION
RESOLUTION PROCESS BETWEEN PURCHASER AND PROVIDER
1360

FIG. 13